

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **14CZ-LD5-25-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.1 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

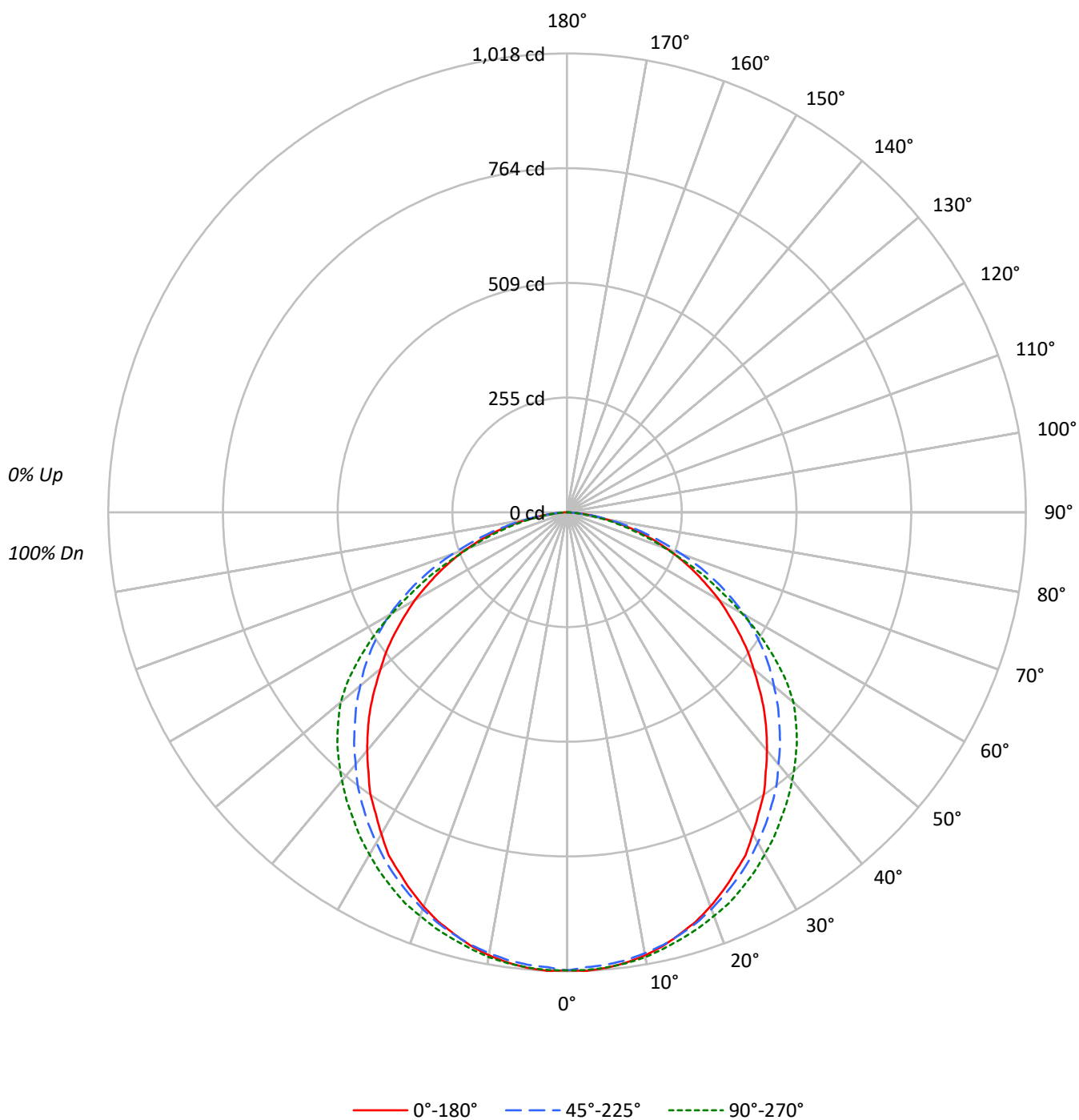
Input Watts (W): 20.46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2735	2735	2735
5°	2734	2700	2714
10°	2715	2673	2691
15°	2680	2639	2658
20°	2641	2599	2633
25°	2587	2554	2608
30°	2524	2502	2575
35°	2459	2450	2543
40°	2374	2387	2518
45°	2294	2328	2494
50°	2194	2269	2453
55°	2109	2209	2302
60°	2013	2126	2056
65°	1886	1962	1766
70°	1737	1706	1423
75°	1532	1391	1107
80°	1179	967	740
85°	744	415	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.4
10°-20°	274.7	9.7
20°-30°	414.4	14.7
30°-40°	496.9	17.6
40°-50°	515.6	18.3
50°-60°	465.5	16.5
60°-70°	339.0	12.0
70°-80°	177.8	6.3
80°-90°	38.0	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	785.2	27.9
0°-40°	1282.1	45.5
0°-60°	2263.2	80.3
0°-90°	2818.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1014	1012	1007	1014	1014	96
15°	968	968	970	980	980	273
25°	881	886	896	915	919	406
35°	762	769	792	821	828	475
45°	618	631	666	708	721	476
55°	466	482	530	562	561	416
65°	312	331	367	350	337	309
75°	161	184	178	154	146	169
85°	31	37	27	21	20	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.2	1016.2	1016.2	1016.2	1016.2
2.5°	1018.2	1015.5	1010.1	1016.9	1016.2
5°	1014.2	1012.2	1007.4	1014.2	1013.5
7.5°	1007.4	1006.1	1002.0	1009.5	1008.8
10°	998.0	996.0	993.3	1001.4	1002.0
12.5°	985.2	984.5	983.2	991.9	991.3
15°	968.4	968.4	969.7	980.5	979.8
17.5°	951.5	951.5	954.9	967.0	967.7
20°	930.6	932.0	936.7	951.5	952.9
22.5°	907.0	908.4	916.5	935.3	938.7
25°	881.4	886.1	895.6	915.1	919.2
27.5°	857.8	858.5	872.7	894.2	899.6
30°	824.1	833.6	846.4	871.3	876.7
32.5°	791.1	800.6	820.1	847.1	854.5
35°	761.5	768.9	791.8	821.4	828.2
37.5°	724.4	736.5	763.5	794.5	803.9
40°	690.0	700.8	729.8	764.8	777.0
42.5°	654.3	666.5	699.5	737.2	749.3
45°	617.9	631.4	665.8	707.6	721.0
47.5°	578.2	595.0	634.1	676.6	688.7
50°	539.8	557.3	599.1	643.5	655.7
52.5°	504.7	520.2	566.1	607.2	612.5
55°	465.6	481.8	530.3	562.0	560.7
57.5°	426.6	444.8	493.3	512.8	507.4
60°	390.2	407.0	455.5	459.6	448.1
62.5°	349.7	369.3	410.4	404.3	390.2
65°	312.0	330.9	366.6	349.7	336.9
67.5°	273.6	293.8	319.4	294.5	279.7
70°	235.9	260.1	269.5	242.6	230.5
72.5°	197.4	223.1	222.4	196.8	186.7
75°	161.1	184.0	177.9	153.6	146.2
77.5°	122.6	145.6	134.1	115.9	109.2
80°	86.9	108.5	93.7	79.5	74.8
82.5°	59.3	72.1	58.6	46.5	44.5
85°	31.0	37.1	27.0	20.9	19.5
87.5°	11.5	10.8	9.4	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)